

Australian Bureau of Statistics

6291.0.55.001 - Labour Force, Australia, Detailed - Electronic Delivery, Jul 2016

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Summary

Main Features

Data from the monthly Labour Force Survey are released in two stages. The Labour Force, Australia, Detailed - Electronic Delivery (cat. no. 6291.0.55.001) and Labour Force, Australia, Detailed, Quarterly (cat. no. 6291.0.55.003) are part of the second release, and include detailed data not contained in the Labour Force, Australia (cat. no. 6202.0) product set, which is released one week earlier.

The Labour Force, Australia, Detailed - Electronic Delivery (cat. no. 6291.0.55.001) is released monthly. Labour Force, Australia, Detailed, Quarterly (cat. no. 6291.0.55.003) includes data only collected in February, May, August and November (including industry and occupation).

Since these products are based on the same data as the Labour Force, Australia (cat. no. 6202.0) publication, the 6202.0 Labour Force, Australia Explanatory Notes are relevant to both releases.

What's New In The Labour Force

WHAT'S NEW IN THE LABOUR FORCE

CHANGES TO LABOUR FORCE OUTPUT FORMATS

Commencing with next month's detailed publication, the August 2016 issue of the *Labour Force, Australia, Detailed - Electronic Delivery* (cat.no. 6291.0.55.001), the ABS plans to publish detailed Labour Force data in pivot table format, in addition to the existing suite of SuperTable data cube outputs.

Pivot tables will increase the accessibility of Labour Force data, as well as provide a long term replacement for the unsupported Summary Record Database (SRD) format. The ABS will continue to release the SRD data cubes for a further twelve months, to allow for a transition to pivot tables, after which the ABS intends to cease to publishing Labour Force SRD data cubes.

With the November 2016 publication of the *Labour Force, Australia, Detailed, Quarterly (cat. no. 6291.0.55.003)*, the ABS expects to commence a similar twelve month process to transition from SRD data cubes to pivot tables.

A similar transition for the GM1 data cube in Labour Force, Australia (cat. no. 6202.0) will also commence, most likely in 2017.

The pivot table products will reflect the design and utility of the existing Summary Record Database (SRD) data cubes as closely as possible. In addition, the inclusion of a comma separated variable (CSV) source worksheet in each pivot table is expected to be of particular interest to people who undertake statistical analysis using a range of software.

NEW EDUCATIONAL ATTAINMENT DATA ITEMS

The following series are planned to be introduced with next month's, August 2016 issue of the *Labour Force*, *Australia*, *Detailed*, *Quarterly* (cat. no. 6291.0.55.003) publication:

- Educational attainment; and
- Educational attendance for the whole civilian population.

The new outputs are the result of changes initially announced in the *Information Paper:* Outcomes of the Labour Household Surveys Content Review, 2012 (cat. no. 6107.0).

An article will be released in conjunction with these new quarterly outputs, to assist with the interpretation of the data.

Insights from the Original Data

INSIGHTS FROM THE ORIGINAL DATA

SAMPLE COMPOSITION

The Labour Force Survey sample can be thought of as comprising eight sub-samples (or rotation groups), with each sub-sample remaining in the survey for eight months, and one rotation group "rotating out" each month and being replaced by a new group "rotating in". This sample rotation is important in ensuring that seven-eighths of the sample are common from one month to the next, to ensure that changes in the estimates reflect real changes in the labour market, rather than the sample. In addition, the replacement sample is generally selected from the same geographic areas as the outgoing one, as part of a representative sampling approach.

When considering movements in the original estimates, it is possible to decompose the sample into three components:

- the matched common sample (survey respondents who responded in both June and July);
- the unmatched common sample (respondents in July but who did not respond in June, or vice versa); and
- the incoming rotation group (who replaced respondents who rotated out in June).

The detailed decomposition of each of these movements is included in the data cube 'Insights From the Original Data'.

In considering the three components of the sample, it is important to remember that the

matched common sample describes the change observed for the same respondents between June and July, while the other two components reflect differences between the aggregate labour force status of different groups of people.

While the rotation groups are designed to be representative of the population, the outgoing and incoming rotation groups will almost always have somewhat different characteristics, as a result of the groups representing a sample of different households and people. The design of the survey, including the weighting and estimation processes, ensures that these differences are generally relatively minor and seeks to ensure that differences in characteristics of rotation groups do not affect the representativeness of the survey and its estimates. Monthly estimates are always designed to be representative of their respective months, regardless of the relative contribution of the three components of the sample.

INCOMING ROTATION GROUP

In original terms, the incoming rotation group in July 2016 had the same Employment to Population ratio as the group it replaced (62.1% in both June and July 2016). The proportion of employed people who were employed full-time was higher than the group it replaced, 67.9% of employed people were employed full-time in the outgoing rotation group in June 2016 and 69.2% of employed people were employed full-time in the incoming rotation group in July 2016.

The incoming rotation group in July 2016 had a smaller share of the Civilian Population aged 15 and over than the group it replaced (12.2% in June 2016 and 11.5% in July 2016).

OUTGOING ROTATION GROUP

In looking ahead to the August 2016 estimates, the outgoing rotation group in July 2016, which will be replaced by a new incoming rotation group in August 2016, had a higher employment to population ratio (62.5% in July 2016) compared to the sample as a whole (61.2% in July 2016).

In original terms, the unemployment rate for the outgoing rotation group in July 2016 was 4.4%, which was lower than for the 5.6% whole sample. The participation rate for the outgoing rotation group in July 2016 was 65.3%, slightly higher than the 64.8% for the whole sample.

THE IMPORTANCE OF TREND DATA

As the gross flows and rotation group data are presented in original terms they are not directly comparable to the seasonally adjusted and trend data discussed elsewhere in the commentary, and are included to provide additional information for the original data. Since the original data are unadjusted, they have a considerable level of inherent sampling variability, which is specifically adjusted for in the trend series. The trend data provide the best measure of the underlying behaviour of the labour market and are the focus of the commentary in this publication.

Understanding and Reporting Regional Labour Force Data

ADVICE ON REPORTING REGIONAL LABOUR FORCE DATA

The ABS recommends considering the following advice when interpreting and reporting regional labour force data:

To account for sampling variability, especially in regions with smaller populations, the ABS recommends that analysis of regional labour force estimates should be based on annual averages (as presented in Table 16(b) of Labour Force, Australia, Detailed (cat. no. 6291.0.55.001)).

INTRODUCTION

The monthly Labour Force Survey provides timely information on the labour market activity of the usually resident civilian population of Australia aged 15 years and over. The statistics of most interest each month are the national and state and territory estimates of the number of employed and unemployed people, the unemployment rate and the labour force participation rate. The rate of change in the number of people employed is a key indicator of economic growth, and the unemployment rate is a key measure of unutilised labour. The participation rate reflects the percentage of the population in the labour force. The underemployment rate is an additional measure of increasing importance, of the extent of underutilisation of employed people.

The Labour Force Survey is designed primarily to provide accurate national estimates, with the secondary design objective of producing state and territory estimates. While the Labour Force Survey is not designed to produce regional estimates, these are compiled from smaller sample sizes at a lower level of statistical quality compared to those produced at state and territory and national levels.

Regional labour force data are published according to the Australian Statistical Geography Standard (ASGS) at the Greater Capital City Statistical Area (GCCSA) and the Statistical Area Level 4 (SA4) on a monthly basis in Labour Force, Australia, Detailed (cat. no. 6291.0.55.001). Each SA4 is designed to reflect, as best as possible, a discrete labour market within a state or territory, subject to the population limits imposed by the size of the Labour Force Survey sample.

It is also important to note that estimates are based on the place of usual residence, while respondents may be employed in a different region to where they live. This is particularly relevant for regions around capital cities, with workers often travelling across regional boundaries to central business districts, and labour market outcomes are more likely to reflect activity in these areas.

On a monthly basis, the Labour Force Survey samples approximately 26,000 dwellings which represents 0.32% of the Australian population. The sample is stratified across the regions of Australia to ensure a representative sample of survey participants and to minimise bias toward any one group of people. As a result, regions with lower populations tend to have fewer people sampled. Estimates produced from small samples are generally subject to proportionally higher sampling error, compared with estimates produced using larger samples. Data at SA4 level are also only presented in original terms, as it is difficult to estimate reliable seasonal factors at this level of detail.

Over time, large data fluctuations occur across most of the regional labour force data with relatively low populations. These fluctuations can be partly the result of local events (for example, the 2011 Queensland floods affected the collection of the labour force data for

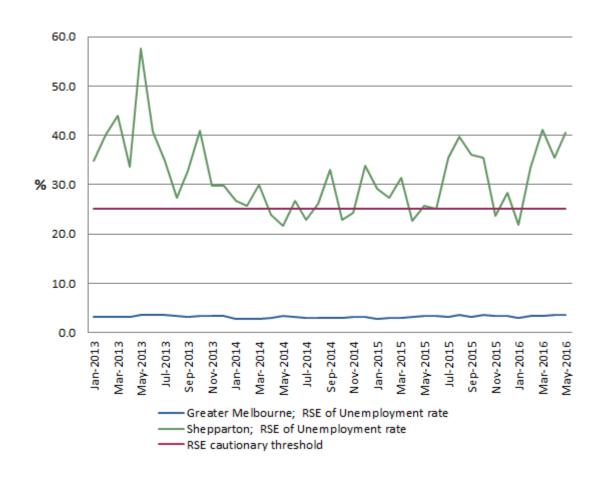
January 2011), but are generally due to sampling variability rather than changes in underlying market conditions.

SAMPLE SIZE AND RELATIVE STANDARD ERRORS

The Relative Standard Error (RSE) of an estimate is the inherent error of the sample as a fraction of the size of the estimate, and provides an indication of the percentage error likely to have occurred due the estimate being produced from a survey sample rather than the total population. The ABS publishes the RSE of each estimate produced from the Labour Force Survey to provide context to the estimates (see Labour Force Survey Standard Errors Data Cube (cat. no. 6298.0.55.001)). In published labour force data, any estimate with an RSE greater than 25% is marked with an asterisk to indicate that its value is subject to high sampling error and should be used with caution.

Graph 1 below provides a comparison between the unemployment rates for the time period January 2013 to May 2016 for Greater Melbourne and Shepparton. Graph 1 shows that the unemployment rate for Shepparton between January 2013 and May 2016 has almost all of its RSEs greater than 25%, while the RSE values for Greater Melbourne, which are based on a larger sample, are consistently lower at around 3%. Data for larger population areas, such as those separated into State, Greater Capital City or Rest of State and Territories, are likely to be affected by smaller sampling error, making point in time comparisons between these larger regions of higher quality.

GRAPH 1. RSE of Monthly Unemployment Rate, Greater Melbourne and Shepparton

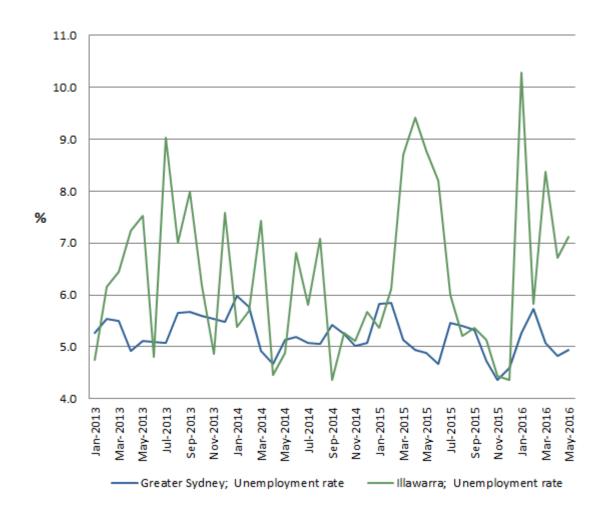


All original labour force time series data (including labour market regions) consists of seasonal influences, irregular fluctuations and an underlying trend. An original data series with large irregular fluctuations can mask important underlying trends in the data. Data associated with regions of smaller population are more likely to exhibit large short-term fluctuations due to sampling error, and further statistical analysis of the data may be required before accurate conclusions can be formed.

Data at SA4 level are presented in original terms only, as seasonal factors are unstable at this level of detail. This can result in point in time inter-regional comparisons, using only the original data, being subject to influences from sampling error, seasonal influences and irregular components of the time series.

As an example, consider Graph 2 below which shows the unemployment rates of Greater Sydney and Illawarra over the period January 2013 to May 2016. Between December 2015 and January 2016, the unemployment rate for Greater Sydney rose from 4.6% to 5.3% and for Illawarra from 4.4% to 10.3%. This could possibly be a result of both regions experiencing higher unemployment rates, or an indication of an economic downturn. However, historical evidence shows that, in general, unemployment rates are seasonally lower in December than they are in January. Graph 2 shows that the Illawarra unemployment rate series was affected to a greater extent by irregular fluctuations than the same series for Greater Sydney. Patterns in historical data show that the unemployment rate for Illawarra fluctuates to a much larger extent in comparison to Greater Sydney, so this large increase in the Illawarra unemployment rate could be the result of an irregular, short term upward fluctuation.

GRAPH 2. Original Series, Unemployment Rates of Greater Sydney and Illawarra



SMOOTHING OUT SHORT TERM FLUCTUATIONS IN REGIONAL DATA

As described above, regional labour force data are more susceptible to irregular fluctuations in the original data and higher RSEs. However, the regional labour force data can be used to give an indication of longer term trends and analysis of regional LFS data should be undertaken on this basis. There are some simple methods that can be used to reduce the amount of variation, though these generally have some unavoidable disadvantages. The advantages and disadvantages of alternative methods are discussed in detail in A Guide to Interpreting Time Series - Monitoring Trends (cat. no. 1349.0).

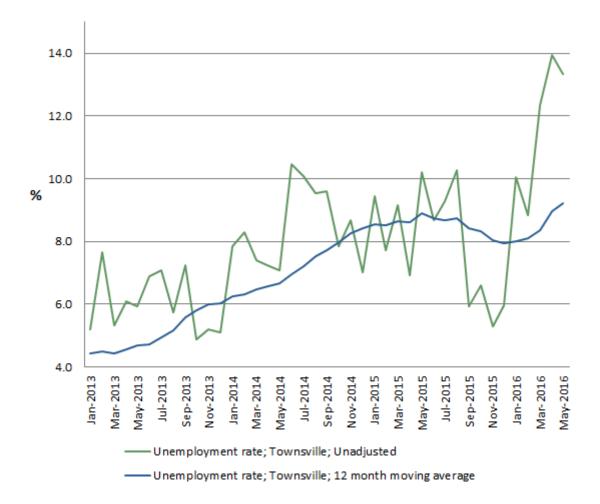
A 12 month moving average is an intuitively simple method, which may lead to an improved interpretation (when compared with an unadjusted series) of the underlying trend movement as shown in Graph 3 and Graph 4 below. These show the difference in the unemployment rate time series from January 2013 to May 2016 for Greater Brisbane and Townsville, plotted using an unadjusted series and a 12 month moving average.

By applying an annual average to the original regional estimates, any seasonal influences are lessened and the monthly variation due to irregular fluctuations may also be reduced. However, the sampling error associated with regional estimates must still be considered before drawing any conclusions from the estimates, and the application of a 12 month moving average is unlikely to accurately or quickly detect turning points in the time series.

GRAPH 3. Unemployment Rates of Greater Brisbane; unadjusted and 12 month moving average



average



Starting with the July 2016 issue of Labour Force, Australia, Detailed (cat. no. 6291.0.55.001), the ABS will include a 12 month moving average spreadsheet (Table 16b). The original data for regional statistics will continue to be available in Table 16, to allow users to construct other moving averages, such as 3 month or 6 month averages, for regions with larger populations or for aggregations of multiple regions.

It is important to note that there are alternative and somewhat more complex methods for smoothing original regional series, such as comparing year-apart growth, and applying a 13-term symmetrical weighted moving average. However, a 12 month moving average is sufficient for most purposes.

SUMMARY

In interpreting labour force regional time series data, it is important to consider both the strengths and the limitations of these types of data, including the relative standard error, before drawing conclusions based on the estimates. The regional estimates have, by design, unavoidably larger relative sampling error compared to the national and state and territory estimates, owing to their smaller sample sizes. Original data also contain seasonal influences and irregular fluctuations, which can mask the underlying trend of the data.

It is for these reasons that the ABS recommends that analysis of regional labour force estimates should be based on annual averages (as presented in Table 16(b) of Labour Force, Australia, Detailed (cat. no. 6291.0.55.001)).

ACKNOWLEDGMENT

The ABS wishes to acknowledge the assistance of the Queensland Treasury and their valuable contribution toward the content of this article.

FOOTNOTE: DEFINITION OF SAMPLING ERROR

Sampling error refers to the difference between an estimate for a population based on data from a sample and the 'true' value for that population, which would result if the whole population were enumerated. Sampling error is affected by a number of factors including sample size, sample design, the sampling fraction and the variability within the population.

FOOTNOTE: COMPARING REGIONAL DATA BEFORE AND AFTER 2013

Labour Force estimates have been published using ASGS regions since January 2014, and were backcast to October 1998. Estimates were backcast by determining from which SA4 each responding dwelling would have been sampled, had the ASGS been the geographical standard used for past Labour Force Survey sample designs. Backcasting labour force estimates by SA4s enabled a consistent time series of regional estimates to be published. However, because previous Labour Force Survey samples were designed using the previous geography standard rather than the ASGS, the creation of a consistent regional times series has had a slight impact on the quality of historical labour force estimates.

Article Archive

This section provides an archive of articles and analysis published in Labour Force, Australia (cat. no. 6202.0), promoting the effective use of labour force statistics. Articles are sorted by publication date.

Articles on labour related topics are also available in Australian Labour Market Statistics (cat. no. 6105.0) and Australian Social Trends (cat. no. 4102.0).

Labour Force Survey Archive

Annual Seasonal Re-analysis	March 2016
Online Collection in the Labour Force Survey	February 2016
What's New in the Labour Force	February 2016
What's New in the Labour Force	January 2016
What's New in the Labour Force	December 2015
Measures of Underemployment and Underutilisation	November 2015
Update on Recommendation 7 from the Independent Technical Review	November 2015
What's New in the Labour Force	November 2015
What's New in the Labour Force	October 2015
What's New in the Labour Force	September 2015
Online Collection in the Labour Force Survey	August 2015
What's New in the Labour Force	July 2015
Progress with recommendations from the Independent Technical	July 2015
Review	Juno 2015
Assessing Volatility in the Labour Force Series	June 2015
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Update on Recommendations 10 and 11 from the Independent Technical Review	June 2015
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Update on Recommendation 7 from the Independent Technical Review	May 2015

What's New in the Labour Force What's New in the Labour Force Annual Seasonal Reanalysis Update on Recommendations from the Independent Technical Review What's new in the Labour Force Online Collection in the Labour Force Survey Rebenchmarking Labour Force Estimates What's new in the Labour force	April 2015 March 2015 March 2015 March 2015 February 2015 February 2015 February 2015 January 2015
What's new in the Labour force Independent Technical Review into the Labour Force Survey and ABS Response	December 2014 November 2014
What's new in the Labour force Removing the effect of Supplementary Surveys from seasonally	November 2014 October 2014
adjusted estimates Changes in this and upcoming labour force issues Changes in this and upcoming labour force issues	September 2014 August 2014
What's new in the Labour force What's new in the Labour force	July 2014 June 2014
What's new in the Labour force What's new in the Labour force	May 2014 February 2014
Rebenchmarking Labour Force Estimates to the 2011 Census of Population and Housing What's new in the Labour force	January 2014 December 2013
Understanding the Australian Labour Force using ABS statistics What's new in the Labour Force	December 2013 November 2013
Understanding full-time/part-time status in the Labour Force Survey What's new in the Labour Force	September 2013 September 2013
Fact sheet did you know - Underemployment What's new in the Labour Force New Labour Force Sample Design	June 2013 June 2013 May 2013
Annual Seasonal Reanalysis What's new in Labour Force	May 2013 May 2013
Transition to online collection of the Labour Force Survey What's new in Labour Force	April 2013 April 2013
Estimating Jobs in the Australian Labour Market Forthcoming improvements to the content of the Labour Force and Labour Supplementary Surveys	February 2013 January 2013
What's new in Labour Force	January 2013
Understanding the Australian Labour Force using ABS statistics Rebenchmarking of Labour Force Series	January 2013 November 2012
Upcoming changes to the Labour Force Survey Labour Household Surveys content review and the Labour Force Survey	July 2012 June 2012
Employment and mining in Queensland, New South Wales and Western Australia	May 2012
ABS Response to recent concerns expressed about employment estimates	April 2012
Population Benchmarks and Labour Force Survey Annual Seasonal Reanalysis	April 2012 March 2012
Exploring Labour Force Data on joblessness Employment level estimates versus employment to population explained	February 2012 January 2012

About this Release

A range of Excel spreadsheets and SuperTABLE datacubes. The monthly spreadsheets contain broad level data covering all the major items of the Labour Force Survey in time series format, including seasonally adjusted and trend estimates. The monthly datacubes contain more detailed and cross classified original data than the spreadsheets.

Explanatory Notes

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Data from the monthly Labour Force Survey are released in two stages. The Labour Force, Australia, Detailed - Electronic Delivery (cat. no. 6291.0.55.001) and Labour Force, Australia, Detailed, Quarterly (cat. no. 6291.0.55.003) are part of the second release, and include detailed data not contained in the Labour Force, Australia (cat. no. 6202.0) product set, which is released one week earlier.

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Since these products are based on the same data as the Labour Force, Australia (cat. no. 6202.0) publication, the 6202.0 Labour Force, Australia Explanatory Notes are relevant to both releases.

Time Series Spreadsheet (I-Note) - Time Series Spreadsheet

Due to the flooding in Queensland in January 2011, the relative standard errors for January 2011 will vary across regions and will be higher than normal in some regions. The RSEs for the Darling Downs-South West and Ipswich City Statistical Regions are expected to be approximately 50% higher, while the RSEs for the Brisbane City Inner Ring Statistical Region will increase by approximately 25%. The Brisbane City Outer Ring, West Moreton and Mackay-Fitzroy-Central West Statistical Regions will have RSEs approximately 10% higher. All other regions have minimal differences. However from February 2011, the data returns to normal. Refer to the article Impact of the floods on the Labour Force Survey in January 2011 for more information.

The new labour force sample was phased-in over four months from May to August 2013.

See the article on page 10 of the May 2013 issue of Labour Force, Australia (cat. no. 6202.0) for more information. During phase in of the new sample, standard errors associated with key labour force data were expected to increase by approximately 10% at a national level, however increased standard errors and variability in the estimates may be more evident in detailed regional data during this time.

Data Cubes (I-Note) - Data Cubes

Due to the flooding in Queensland in January 2011, the relative standard errors for January 2011 will vary across regions and will be higher than normal in some regions. The RSEs for the Darling Downs-South West and Ipswich City Statistical Regions are expected to be approximately 50% higher, while the RSEs for the Brisbane City Inner Ring Statistical Region will increase by approximately 25%. The Brisbane City Outer Ring, West Moreton and Mackay-Fitzroy-Central West Statistical Regions will have RSEs approximately 10% higher. All other regions have minimal differences. However from February 2011, the data returns to normal. Refer to the article Impact of the floods on the Labour Force Survey in January 2011 for more information.

The new labour force sample was phased-in over four months from May to August 2013. See the article on page 10 of the May 2013 issue of Labour Force, Australia (cat. no. 6202.0) for more information. During phase in of the new sample, standard errors associated with key labour force data were expected to increase by approximately 10% at a national level, however increased standard errors and variability in the estimates may be more evident in detailed regional data during this time.

Standard Errors

Estimates from the Labour Force Survey (LFS) are based on information collected from people in a sample of dwellings, rather than the entire population. Hence the estimates produced may differ from those that would have been produced if the entire population had been included in the survey. The most common measure of the likely difference (or 'sampling error') is the **standard error** (SE).

The ABS considers that estimates with a relative standard error of 25% or more may be subject to sampling variability too high for most practical purposes.

To indicate those cells in spreadsheets with a relative standard error of 25% or more, annotations have been applied prior to dissemination.

In addition, the tables below have been supplied to show estimates at which the relative standard error is 25%. Estimates of the size indicated in the tables, or smaller, are considered to be subject to sampling variability too high for most practical purposes.

Due to the January 2011 flooding in Queensland the relative standard errors for January 2011 will be higher than normal in some regions, therefore for Queensland the estimates at which the relative standard error is 25% will be higher than they appear in the tables below. However from February, the data returns to normal.

The new labour force sample was phased-in over four months from May to August 2013.

During phase in of the new sample, standard errors associated with key labour force data were expected to increase by approximately 10% at a national level, however increased standard errors and variability in the estimates may be more evident in detailed regional data during this time.

The RSEs for July 2013 (50% old sample, 50% new sample) and onwards will be subject to revisions in the future, as more information is known about the new sample after it has been introduced.

Additional information on how standard errors for LFS estimates are produced is available in Labour Force Survey Standard Errors, Data Cube (cat. no. 6298.0.55.001).

State	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Aust
Employed									
Feb-78 — Sep-82	4.5	4.5	3.5	2.5	2.5	1.5	1.8	2.0	4.5
Oct-82 — Aug-87	4.0	4.0	3.0	1.8	2.0	1.0	1.8	1.3	3.5
Sep-87 — Feb-89	4.5	4.5	3.0	2.0	2.5	1.3	1.8	1.5	4.0
Mar-89 — Aug-92	4.5	4.5	3.0	2.1	2.3	1.3	2.0	1.4	3.5
Sep-92 — Aug-97	5.3	4.6	3.5	2.4	2.9	1.3	1.3	1.0	4.0
Sep-97 — Sep-98	5.9	4.5	4.1	2.4	2.8	1.1	1.0	1.1	4.4
Oct-98 — Feb-03	5.9	3.1	3.7	2.5	2.2	1.1	1.3	0.9	5.5
Mar-03 — Oct-07	6.3	3.0	4.4	2.3	2.5	1.3	1.5	1.1	6.6
Nov-07	6.2	3.2	4.3	2.3	2.5	1.3	1.4	1.1	6.4
Dec-07	6.1	3.4	4.3	2.3	2.6	1.3	1.3	1.1	6.2
Jan-08	6.0	3.6	4.2	2.3	2.6	1.3	1.3	1.2	6.0
Feb-08	5.9	3.8	4.2	2.4	2.7	1.3	1.2	1.2	5.9
Mar-08	5.9	4.1	4.2	2.4	3.0	1.2	1.1	1.2	5.7
Apr-08	5.8	4.4	4.4	2.5	3.1	1.3	1.0	1.3	5.6
May-08	5.7	4.7	4.3	2.5	3.1	1.3	1.0	1.3	5.4
Jun-08	5.5	4.9	4.3	2.5	3.3	1.3	1.0	1.3	5.3
Jul-08 — Aug-09	6.9	6.1	5.3	3.1	4.0	1.5	1.2	1.6	7.4
Sep-09	6.5	5.8	5.0	2.9	3.8	1.5	1.1	1.5	7.0
Oct-09	6.1	5.5	4.7	2.8	3.6	1.4	1.0	1.4	6.5
Nov-09	5.8	5.2	4.5	2.6	3.4	1.3	1.0	1.4	6.2
Dec-09 — Jun-13	5.5	4.9	4.3	2.5	3.3	1.3	1.0	1.3	5.8
Jul-13 — Jan-14	7.7	3.8	5.5	2.7	3.8	1.4	0.3	1.7	7.8
Feb-14 onwards	7.9	3.9	5.6	2.7	3.8	1.4	0.3	1.7	7.9
Unemployed									
Feb-78 — Sep-82	4.5	4.5	3.5	2.5	2.5	1.5	1.8	2.0	4.5
Oct-82 — Aug-87	4.0	4.0	3.0	1.8	2.0	1.0	1.8	1.3	3.5
Sep-87 — Feb-89	4.5	4.5	3.0	2.0	2.5	1.3	1.8	1.5	4.0
Mar-89 — Aug-92	4.5	4.5	3.0	2.1	2.3	1.3	2.0	1.4	3.5
Sep-92 — Aug-97	5.3	4.6	3.5	2.4	2.9	1.3	1.3	1.0	4.0
Sep-97 — Sep-98	5.9	4.5	4.1	2.4	2.8	1.1	1.0	1.1	4.4
Oct-98 — Feb-03	5.7	5.7	4.5	2.6	3.3	1.3	3.2	1.4	4.9
Mar-03 — Oct-07	6.0	5.4	4.9	2.9	3.6	1.6	2.2	1.6	5.2
Nov-07	6.1	5.4	5.0	2.9	3.7	1.6	2.1	1.7	5.2
Dec-07	6.2	5.5	5.0	2.9	3.8	1.7	1.9	1.7	5.2
Jan-08	6.3	5.6	5.0	3.0	4.0	1.7	1.8	1.8	5.2
Feb-08	6.4	5.7	5.1	3.0	4.1	1.7	1.7	1.8	5.1
Mar-08	6.7	5.7	5.2	3.1	4.5	1.8	1.6	1.9	5.1
Apr-08	6.8	5.9	5.5	3.2	4.6	1.9	1.5	1.9	5.2
May-08	6.9	6.0	5.5	3.3	4.8	1.9	1.4	2.0	5.1
-									

Jun-08 Jul-08 — Aug-09 Sep-09 Oct-09 Nov-09 Dec-09 — Jun-13 Jul-13 — Jan-14 Feb-14 onwards	7.1 9.3 8.7 8.1 7.5 7.1 7.3 7.4	6.1 8.0 7.5 7.0 6.5 6.1 6.6 6.7	5.6 7.4 6.8 6.4 6.0 5.6 8.4 8.6	3.3 4.4 4.1 3.8 3.5 3.3 3.7 3.8	5.0 6.6 6.1 5.7 5.3 5.0 5.8 5.9	1.9 2.5 2.4 2.2 2.1 1.9 1.7	1.4 1.8 1.6 1.5 1.5 1.4 1.3	2.1 2.8 2.5 2.4 2.2 2.1 2.2 2.3	5.1 7.3 6.8 6.4 6.0 5.7 7.1 7.3
NILF									
Feb-78 — Sep-82 Oct-82 — Aug-87 Sep-87 — Feb-89 Mar-89 — Aug-92 Sep-92 — Aug-97 Sep-97 — Sep-98 Oct-98 — Feb-03 Mar-03 — Oct-07 Nov-07 Dec-07 Jan-08 Feb-08 Mar-08 Apr-08 May-08 Jun-08 Jul-08 — Aug-09 Sep-09 Oct-09 Nov-09 Dec-09 — Jun-13	4.5 4.0 4.5 4.5 5.3 5.9 6.4 7.8 7.6 7.4 7.1 7.0 6.8 6.6 8.3 7.8 7.3 6.9 6.6	4.5 4.0 4.5 4.5 4.6 4.5 3.7 3.7 3.9 4.1 4.4 4.7 5.0 5.4 5.7 6.0 7.6 7.2 6.7 6.4 6.0	3.5 3.0 3.0 3.5 4.1 5.2 5.1 5.0 5.0 4.9 5.2 5.2 6.1 5.4 5.2	2.5 1.8 2.0 2.1 2.4 2.4 3.2 3.0 3.0 3.0 3.1 3.1 3.2 3.2 4.0 3.7 3.5 3.3	2.5 2.0 2.5 2.3 2.9 2.8 2.7 3.2 3.3 3.4 3.5 3.8 3.9 4.1 5.2 4.9 4.6 4.4 4.1	1.5 1.0 1.3 1.3 1.1 1.2 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	1.8 1.8 2.0 1.3 1.0 1.4 2.0 1.8 1.7 1.6 1.5 1.3 1.2 1.1 1.1 1.4 1.3 1.2 1.1	2.0 1.3 1.5 1.4 1.0 1.1 1.3 1.3 1.4 1.4 1.5 1.5 1.6 1.6 2.0 1.9 1.8 1.7	4.5 3.5 4.0 3.5 4.0 4.4 6.0 7.3 7.0 6.8 6.3 6.2 6.9 5.6 8.0 7.4 6.5 6.2
Jul-13 — Jan-14 Feb-14 onwards	8.4 8.5	4.4 4.5	9.8 9.9	3.6 3.7	4.5 4.6	1.8 1.8	0.7	2.5 2.5	9.0 9.1

Greater Capital City Statistical Areas	Feb-78 — Sep-82	Oct-82 — Aug-87	Sep-87 — Feb-89	Mar-89 — Aug-92	Sep-92 — Aug-97	Sep-97 — Sep-98	- Oct-98 — Feb-03
Creater Cudney	-	•		_	•	г 7	
Greater Sydney	4.5	4.0	4.5	4.5	5.3	5.7	5.8
Rest of NSW	4.5	4.0	4.5	4.5	5.3	5.7	5.8
Greater Melbourne	4.5	4.0	4.5	4.5	4.6	4.6	3.3
Rest of Victoria	4.5	4.0	4.5	4.5	4.6	4.3	3.2
Greater Brisbane	3.5	3.0	3.0	3.0	3.5	3.7	3.4
Rest of Queensland	3.5	3.0	3.0	3.0	3.6	4.3	3.6
Greater Adelaide	2.5	1.8	2.0	2.1	2.4	2.4	2.7
Rest of South Australia	2.5	1.8	2.0	2.1	2.5	2.2	2.5
Greater Perth	2.5	2.0	2.5	2.3	2.9	2.6	2.3
Rest of Western	2.5	2.0	2.5	2.3	2.9	2.8	2.2
Australia							
Greater Hobart	1.5	1.0	1.3	1.3	1.3	1.1	0.9
Rest of Tasmania	1.5	1.0	1.3	1.3	1.3	1.1	1.1
	Mar-03 —	Mar-08 —	Jul-08 – Oct-09	-Nov-09 	Jul-13 – Jan-14	-Feb-14 onwards	
	Feb-08	Jun-08		Jun-13			
Greater Sydney	6.5	5.7	7.1	5.7	7.6	7.7	

Rest of NSW	6.4	5.6	7.0	5.6	7.5	7.6	
Greater Melbourne	3.2	5.1	6.4	5.1	4.0	4.0	
Rest of Victoria	3.1	5.0	6.3	5.0	3.9	3.9	
Greater Brisbane	4.1	4.0	5.0	4.0	5.9	6.0	
Rest of Queensland	4.4	4.3	5.4	4.3	6.3	6.4	
Greater Adelaide	2.5	2.7	3.4	2.7	3.0	3.0	
Rest of South Australia		2.5	3.1	2.5	2.8	2.8	
Greater Perth	2.6	3.5	4.3	3.5	3.9	4.0	
Rest of Western	2.5	3.3	4.1	3.3	3.7	3.8	
Australia	2.5	5.5	7.1	5.5	5.1	5.0	
Greater Hobart	1.1	1.1	1.4	1.1	1.3	1.3	
Rest of Tasmania		1.3	1.4				
	1.3			1.3	1.5	1.5	
Statistical Area Level	4 Oct-98	Mar-03	Mar-08	Jul-08	Nov-09	Jul-13	Feb-14
Regions	-	—	_	_	_	_	onwards
	Feb-03	Feb-08	Jun-08	Oct-09	Jun-13	Jan-14	
Central Coast	7.4	8.5	7.2	9.4	7.2	10.2	10.4
Sydney - Baulkham Hills	s 7.2	8.3	7.0	9.2	7.0	10.0	10.2
and Hawkesbury							
Sydney - Blacktown	7.3	8.3	7.1	9.3	7.1	10.0	10.2
Sydney - City and Inner	8.5	9.7	8.3	10.8	8.3	11.7	11.9
South							
Sydney - Eastern	9.6	11.0	9.3	12.2	9.3	13.1	13.4
Suburbs							
Sydney - Inner South	7.3	8.4	7.1	9.3	7.1	10.1	10.3
West							
Sydney - Inner West	7.7	8.8	7.5	9.8	7.5	10.6	10.8
Sydney - North Sydney	7.6	8.6	7.3	9.6	7.3	10.4	10.6
and Hornsby							
Sydney - Northern	7.8	8.9	7.6	9.9	7.6	10.7	10.9
Beaches							
Sydney - Outer South	7.3	8.4	7.1	9.3	7.1	10.1	10.3
West							
Sydney - Outer West	7.3	8.3	7.1	9.3	7.1	10.0	10.2
and Blue Mountains							
Sydney - Parramatta	7.8	8.9	7.6	10.0	7.6	10.8	11.0
Sydney - Ryde	7.7	8.8	7.5	9.8	7.5	10.6	10.8
Sydney - South West	7.5	8.6	7.3	9.6	7.3	10.4	10.6
Sydney - Sutherland	7.4	8.4	7.2	9.4	7.2	10.1	10.3
Capital Region	7.2	8.2	7.0	9.2	7.0	9.9	10.1
Central West	7.2 7.6	8.7	7.0 7.4	9.7	7.0 7.4	10.5	10.1
Coffs Harbour - Grafton		8.7	7. 4 7.4	9.7	7. 4 7.4	10.5	10.7
Far West and Orana	7.0 7.4	8. <i>1</i>	7. 4 7.2	9.4	7.4	10.3	10.7
	7.4 7.1		6.9				
Hunter Valley exc Newcastle	7.1	8.1	0.9	9.0	6.9	9.8	10.0
	7.6	0.7	7 1	0.7	7.4	10 E	10.7
Illawarra	7.6	8.7	7.4	9.7	7.4	10.5	10.7
Mid North Coast	7.5	8.6	7.3	9.6	7.3	10.3	10.6
Murray	7.6	8.6	7.4	9.6	7.4	10.4	10.6
New England and North	ל. / ו	8.7	7.4	9.7	7.4	10.5	10.7
West	7 1	0.1	6.0	0.0	6.0	0.0	0.0
Newcastle and Lake	7.1	8.1	6.9	9.0	6.9	9.8	9.9
Macquarie	7.6	0 7	7 /	0.7	7 /	10 5	10.7
Richmond - Tweed	7.6	8.7 8.6	7.4 7.4	9.7	7.4 7.4	10.5	10.7
Riverina	7.6	8.6	7.4	9.6	7.4	10.4	10.6

Shoalhaven Melbourne - Inner Shoalhaven Melbourne - Inner Shoalhaven Shoalhaven Melbourne - Inner Shoalhaven Shoalhav	Southern Highlands and	9.0	10.3	8.7	11.4	8.7	12.3	12.6
Melbourne - Inner East 3.6 3.4 6.2 8.2 6.2 4.5 4.6 Melbourne - Inner South 3.7 3.5 6.4 8.4 6.4 4.7 4.8 Melbourne - North West 3.7 3.6 6.5 8.6 6.5 4.7 4.8 Melbourne - South East 3.8 3.6 6.5 8.6 6.5 4.7 4.8 Melbourne - South East 3.6 6.6 8.7 6.6 4.8 4.9 Melbourne - West 3.5 3.4 6.1 8.1 6.1 4.4 4.5 Melbourne - West 3.5 3.4 6.1 8.1 6.1 4.4 4.5 Melbourne - West 3.5 6.6 8.8 6.7 4.9 5.0 Ballarat 4.0 3.8 6.9 9.1 6.9 5.0 5.1 Bendigo 3.8 3.7 6.7 8.8 6.7 4.9 5.0 Geelong 3.7 3.8 </td <td>•</td> <td>0.0</td> <td>20.0</td> <td></td> <td></td> <td></td> <td>12.0</td> <td>0</td>	•	0.0	20.0				12.0	0
Melbourne - Inner South 3.7 3.5 6.4 8.4 6.4 4.7 4.8 Melbourne - North Kest 3.7 3.6 6.5 8.6 6.5 4.7 4.8 Melbourne - North West 3.7 3.6 6.5 8.6 6.5 4.7 4.8 Melbourne - South East 3.8 3.6 6.6 8.7 6.6 4.8 4.9 Melbourne - West 3.5 3.4 6.1 8.1 6.1 4.4 4.5 Mornington Peninsula 3.6 3.5 6.4 8.3 6.4 4.6 4.7 Ballarat 4.0 3.8 6.9 9.1 6.9 5.0 5.1 Bendigo 3.8 3.7 6.7 8.8 6.7 4.9 5.0 Geelong 3.7 3.5 6.5 8.5 6.5 4.7 4.8 Hume 4.3 4.1 7.4 9.7 7.2 9.4 7.2 5.2 5.3 North West 3.9 3.7 6.8 8.9 6.8 4.9 5.0	Melbourne - Inner	4.1	3.9	7.2	9.4	7.2	5.2	5.3
Melbourne - North East 3.8 3.6 6.6 8.6 6.5 4.7 4.8 Melbourne - Outer East 3.8 3.6 6.5 8.7 6.6 4.8 4.9 Melbourne - South East 3.6 3.4 6.3 8.3 6.3 4.6 4.7 Melbourne - West 3.5 3.4 6.1 8.1 6.1 4.4 4.5 Mornington Peninsula 3.6 3.5 6.4 8.3 6.4 4.6 4.7 Ballarat 4.0 3.8 6.9 9.1 6.9 5.0 5.1 Bendigo 3.8 3.7 6.7 8.8 6.7 4.9 5.0 Geelong 3.7 3.5 6.5 8.5 6.5 4.7 4.8 Hume 4.3 4.1 7.4 9.7 7.4 5.4 5.5 Latrobe - Gippsland 4.1 5.1 6.7 8.5 6.5 4.7 4.8 West 3.9	Melbourne - Inner East	3.6	3.4	6.2	8.2	6.2	4.5	4.6
Melbourne - North West 3.6 6.5 8.6 6.5 4.7 4.8 Melbourne - South East 3.8 3.6 6.6 8.7 6.6 4.8 4.9 Melbourne - South East 3.5 3.4 6.1 8.1 6.1 4.4 4.5 Melbourne - West 3.5 3.4 6.1 8.1 6.1 4.4 4.5 Mornington Perinsula 3.6 3.5 6.4 8.3 6.4 4.6 4.7 Bendigo 3.8 3.7 6.7 8.8 6.7 4.9 5.0 Geelong 3.7 3.5 6.5 8.5 6.5 4.7 4.8 Hume 4.3 4.1 7.4 9.7 7.4 5.4 5.5 Latrobe - Gippsland 4.1 3.9 7.2 9.4 7.2 5.2 5.3 North West 3.9 3.7 6.8 8.9 6.8 4.9 5.0 West 4.1 5.1	Melbourne - Inner South	3.7	3.5	6.4	8.4		4.7	4.8
Melbourne - Outer East 3.8 3.6 6.6 8.7 6.6 4.8 4.9 Melbourne - West 3.5 3.4 6.3 8.3 6.3 4.6 4.7 Mornington Peninsula 3.6 3.5 6.4 8.3 6.4 4.6 4.7 Ballarat 4.0 3.8 6.9 9.1 6.9 5.0 5.1 Bendigo 3.8 3.7 6.7 8.8 6.7 4.9 5.0 5.1 Beelong 3.7 3.5 6.5 8.5 6.5 4.7 4.8 Hume 4.3 4.1 7.4 9.7 7.4 5.4 5.5 Latrobe - Gippsland 4.1 3.9 3.7 6.8 8.9 6.8 4.9 5.0 Shepparton 4.3 4.1 7.4 9.7 7.4 5.4 5.5 West 8.1 5.2 6.5 8.5 6.5 4.7 4.8 West 8.								
Melbourne - South East 3.6 3.4 6.3 8.3 6.3 4.6 4.7 Melbourne - West 3.5 3.4 6.1 8.1 6.1 4.4 4.5 Mornington Peninsula 3.6 3.5 6.4 8.3 6.4 4.6 4.7 Ballarat 4.0 3.8 6.9 9.1 6.9 5.0 5.1 Bendigo 3.8 3.7 6.7 8.8 6.7 4.9 5.0 Geelong 3.7 3.5 6.5 8.5 6.5 4.7 4.8 Hume 4.3 4.1 7.4 9.7 7.4 5.4 5.5 Latrobe - Gippsland 4.1 3.9 7.2 9.4 7.2 5.2 5.3 North West 3.9 3.7 6.8 8.9 6.8 4.9 5.0 West 4.1 5.1 5.1 6.7 5.1 8.1 8.2 Brisbane - East 4.1 5.2								
Melbourne - West 3.5 3.4 6.1 8.1 6.1 4.4 4.5 Mornington Peninsula 3.6 3.5 6.4 8.3 6.4 4.6 4.7 Ballarat 4.0 3.8 6.9 9.1 6.9 5.0 5.1 Bendigo 3.8 3.7 6.7 8.8 6.7 4.9 5.0 Geelong 3.7 3.5 6.5 8.5 6.5 4.7 4.8 Hume 4.3 4.1 7.4 9.7 7.4 5.4 5.5 Latrobe - Gippsland 4.1 3.9 3.7 6.8 8.9 6.8 4.9 5.0 Shepparton 4.3 4.1 7.4 9.7 7.4 5.4 5.5 West 8.8 6.5 8.5 6.5 4.7 4.8 West 8.7 5.1 5.1 6.7 5.1 8.1 8.2 Brisbane - South 4.2 5.2 5.2								
Mornington Peninsula 3.6 3.5 6.4 8.3 6.4 4.6 4.7								
Ballarat 4.0 3.8 6.9 9.1 6.9 5.0 5.1 Bendigo 3.8 3.7 6.7 8.8 6.7 4.9 5.0 Geelong 3.7 3.5 6.5 8.5 6.5 4.7 4.8 Hume 4.3 4.1 7.4 9.7 7.4 5.4 5.5 Latrobe - Gippsland 4.1 3.9 7.2 9.4 7.2 5.2 5.3 North West 3.9 3.7 6.8 8.9 6.8 4.9 5.0 Shepparton 4.3 4.1 7.4 9.7 7.4 5.4 5.5 Warmambool and South 3.7 3.5 6.5 8.5 6.5 4.7 4.8 West Brisbane - East 4.1 5.1 5.1 6.7 5.1 8.1 8.2 Brisbane - North 4.1 5.2 5.1 6.7 5.1 8.1 8.3 Brisbane - West 4.1 5.2 5.1 6.7 5.1 8.1 8.3 Brisbane - West 4.1 5.2 5.1 6.7 5.1 8.1 8.3 Brisbane - West 4.1 5.2 5.1 6.7 5.1 8.2 8.3 Brisbane - West 4.1 5.2 5.1 6.7 5.1 8.2 8.3 Brisbane - West 4.1 5.2 5.1 6.7 5.1 8.2 8.3 Brisbane - South 4.2 5.2 5.0 6.8 5.2 8.2 8.4 Brisbane - West 4.1 5.2 5.1 6.7 5.1 8.2 8.3 Brisbane - West 4.1 5.2 5.1 6.7 5.1 8.2 8.3 Brisbane - West 4.1 5.2 5.1 6.7 5.1 8.2 8.3 Brisbane - South 4.2 5.3 5.3 6.9 5.3 8.4 8.6 Ipswich 4.0 5.0 5.0 6.5 5.0 7.9 8.1 Logan - Beaudesert 4.3 5.4 5.3 7.0 5.3 8.4 8.6 Moreton Bay - North 3.9 4.9 4.8 6.4 4.8 7.7 7.9 Moreton Bay - South 3.9 4.9 4.8 6.4 4.8 7.7 7.9 Moreton Bay - South 3.9 4.9 4.8 6.3 4.8 7.7 7.9 Darling Downs - 4.6 5.8 5.7 7.5 5.7 9.1 9.3 Maranoa Fitzroy 4.2 5.3 5.2 6.9 5.2 8.3 8.5 Gold Coast 4.3 5.5 5.4 7.1 5.4 8.6 8.7 Mackay 4.2 5.3 5.2 6.9 5.2 8.3 8.5 Gold Coast 4.3 5.5 5.4 7.1 5.4 8.6 8.7 Mackay 4.2 5.3 5.2 6.9 5.2 8.3 8.5 Gold Coast 4.3 5.4 5.3 7.0 5.3 8.4 8.6 Towowomba 4.6 5.8 5.7 7.5 5.7 9.0 9.2 Townsville 4.7 5.9 5.8 7.6 5.8 9.2 9.4 Wide Bay 4.6 5.8 5.7 7.5 5.7 9.0 9.2 Townsville 4.7 5.9 5.8 7.6 5.8 9.2 9.4 Wide Bay 4.6 5.8 5.7 7.5 5.7 9.0 9.2 Adelaide - Central and 3.3 3.1 3.3 3.3 3.7 3.8 Adelaide - South 3.4 3.1 3.4 4.4 3.4 3.8 3.9 Adelaide - South 3.4 3.1 3.4 4.4 3.4 3.8 3.9 Adelaide - South 3.4 3.1 3.4 3.4 3.4 3.8 3.9 Adelaide - South 3.1 2.8 3.1 4.0 3.1 3.5 3.5 Brisbane Latrobe 4.7 5.9 5.8 7.6 5.8 9.2 9.4 Wide Bay 4.6 5.8 5.7 7.5 5.7 9.0 9.2 Coutback South Australia - 3.7 3.4 3.7 4.8 3.7 4.1 4.2 Coutback South Australia - 3.7 3.4 3.7 4.8 3.7 4.1 4.2 Coutback South Australia - South 3.1 2.8 3.1 4.0 5.2 4.0 4.6 4.7 Perth - Inner 3.1								
Bendigo 3.8 3.7 6.7 8.8 6.7 4.9 5.0 Geelong 3.7 3.5 6.5 8.5 6.5 4.7 4.8 Hume 4.3 4.1 7.4 9.7 7.4 5.2 5.3 North West 3.9 3.7 6.8 8.9 6.8 4.9 5.0 Shepparton 4.3 4.1 7.4 9.7 7.4 5.4 5.5 West Spristane - North 4.1 5.1 6.5 8.5 6.5 4.7 4.8 Brisbane - Bast 4.1 5.1 5.1 6.7 5.1 8.1 8.2 Brisbane - South 4.2 5.2 5.2 6.8 5.2 8.2 8.4 Brisbane - South 4.2 5.2 5.2 6.8 5.2 8.2 8.4 Brisbane - West 4.1 5.2 5.1 6.7 5.1 8.2 8.3 Brisbane - North 4.9	_							
Geelong								
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Latrobe - Gippsland	•							
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Adelaide - West 3.7 3.4 3.7 4.8 3.7 4.1 4.2 Barossa - Yorke - Mid 3.5 3.2 3.5 4.5 3.5 3.9 4.0 North South Australia - 3.7 3.4 3.7 4.8 3.7 4.1 4.2 Outback South Australia - South 3.1 2.8 3.1 4.0 3.1 3.5 3.5 East Mandurah 2.4 2.8 4.0 5.2 4.0 4.6 4.7 Perth - Inner 3.1 3.5 4.9 6.5 4.9 5.8 5.9	Adelaide - North	3.3	3.0	3.3	4.3	3.3	3.7	3.8
Barossa - Yorke - Mid 3.5 3.2 3.5 4.5 3.5 3.9 4.0 North South Australia - 3.7 3.4 3.7 4.8 3.7 4.1 4.2 Outback South Australia - South 3.1 2.8 3.1 4.0 3.1 3.5 3.5 East Mandurah 2.4 2.8 4.0 5.2 4.0 4.6 4.7 Perth - Inner 3.1 3.5 4.9 6.5 4.9 5.8 5.9	Adelaide - South	3.4	3.1	3.4	4.4	3.4	3.8	3.9
North South Australia - 3.7 3.4 3.7 4.8 3.7 4.1 4.2 Outback South Australia - South 3.1 2.8 3.1 4.0 3.1 3.5 3.5 East Mandurah 2.4 2.8 4.0 5.2 4.0 4.6 4.7 Perth - Inner 3.1 3.5 4.9 6.5 4.9 5.8 5.9	Adelaide - West	3.7	3.4	3.7	4.8	3.7	4.1	4.2
South Australia - Outback 3.7 3.4 3.7 4.8 3.7 4.1 4.2 South Australia - South 3.1 2.8 3.1 4.0 3.1 3.5 3.5 East Mandurah Perth - Inner 2.4 2.8 4.0 5.2 4.0 4.6 4.7 Perth - Inner 3.1 3.5 4.9 6.5 4.9 5.8 5.9	Barossa - Yorke - Mid	3.5	3.2	3.5	4.5	3.5	3.9	4.0
Outback South Australia - South 3.1 2.8 3.1 4.0 3.1 3.5 3.5 East Mandurah 2.4 2.8 4.0 5.2 4.0 4.6 4.7 Perth - Inner 3.1 3.5 4.9 6.5 4.9 5.8 5.9	North							
South Australia - South 3.1 2.8 3.1 4.0 3.1 3.5 3.5 East Mandurah Perth - Inner 2.4 2.8 4.0 5.2 4.0 4.6 4.7 Perth - Inner 3.1 3.5 4.9 6.5 4.9 5.8 5.9		3.7	3.4	3.7	4.8	3.7	4.1	4.2
East Mandurah 2.4 2.8 4.0 5.2 4.0 4.6 4.7 Perth - Inner 3.1 3.5 4.9 6.5 4.9 5.8 5.9								
Perth - Inner 3.1 3.5 4.9 6.5 4.9 5.8 5.9		3.1	2.8	3.1	4.0	3.1	3.5	3.5
	Mandurah	2.4	2.8	4.0	5.2	4.0	4.6	4.7
Perth - North East 2.9 3.3 4.6 6.1 4.6 5.4 5.5								
	Perth - North East	2.9	3.3	4.6	6.1	4.6	5.4	5.5

Perth - North West	2.8	3.2	4.5	5.9	4.5	5.2	5.3
Perth - South East	2.9	3.3	4.7	6.1	4.7	5.5	5.6
Perth - South West	2.7	3.1	4.3	5.7	4.3	5.0	5.1
Bunbury	2.4	2.8	4.0	5.2	4.0	4.6	4.7
Western Australia - Outback	2.8	3.3	4.6	6.0	4.6	5.4	5.5
Western Australia - Wheat Belt	2.6	3.0	4.2	5.5	4.2	4.9	5.0
Greater Hobart	0.9	1.1	1.1	1.4	1.1	1.3	1.3
Launceston and North East	1.3	1.5	1.5	1.9	1.5	1.7	1.8
Tasmania - South East	1.6	1.9	1.9	2.4	1.9	2.2	2.2
Tasmania - West and North West	1.3	1.6	1.6	2.0	1.6	1.8	1.8
Darwin	1.4	1.7	1.0	1.3	1.0	0.9	0.9
Northern Territory - Outback	1.4	1.7	1.0	1.3	1.0	0.9	0.9

Quality Declaration - Summary

QUALITY DECLARATION - SUMMARY

INSTITUTIONAL ENVIRONMENT

Labour Force statistics are compiled from the Labour Force Survey which is conducted each month throughout Australia as part of the Australian Bureau of Statistics (ABS) household survey program. For information on the institutional environment of the ABS, including the legislative obligations of the ABS, financing and governance arrangements, and mechanisms for scrutiny of ABS operations, please see ABS Institutional Environment.

RELEVANCE

The Labour Force Survey provides monthly information about the labour market activity of Australia's resident civilian population aged 15 years and over. The Labour Force Survey is designed to primarily provide estimates of employment and unemployment for the whole of Australia and, secondarily, for each state and territory.

TIMELINESS

The Labour Force Survey enumeration begins on the Sunday between the 5th and 11th of the month, except for the Christmas and New Year holiday period. In December enumerations starts between the 3rd and 9th (4 weeks after November enumeration begins). In January enumeration starts between the 7th and 13th (5 weeks after December enumeration begins).

Key estimates from the Labour Force Survey are published in two stages. The first, *Labour Force, Australia* (cat. no. 6202.0), is released 39 days after the commencement of enumeration for the month, with the exception of estimates for December which are published 46 days after the commencement of enumeration.

The second stage includes detailed data that were not part of the first stage and are published in *Labour Force*, *Australia*, *Detailed* - *Electronic Delivery* (cat. no. 6291.0.55.001) and *Labour Force*, *Australia*, *Detailed*, *Quarterly* (cat. no. 6291.0.55.003). The second stage is released 7 days after the first stage.

ACCURACY

The Labour Force Survey is based on a sample of private dwellings (approximately 26,000 houses, flats etc) and non-private dwellings, such as hotels and motels. The sample covers about 0.32% of the Australian civilian population aged 15 years or over. The Labour Force Survey is designed primarily to provide estimates of key labour force statistics for the whole of Australia and, secondarily, for each state and territory.

Two types of error are possible in an estimate based on a sample survey: non-sampling error and sampling error.

Non-sampling error arises from inaccuracies in collecting, recording and processing the data. Every effort is made to minimise reporting error by the careful design of questionnaires, intensive training and supervision of interviewers, and efficient data processing procedures. Non-sampling error also arises because information cannot be obtained from all persons selected in the survey. The Labour Force Survey receives a high level of cooperation, with an average response rate for the last year being 94%.

Sampling error occurs because a sample, rather than the entire population, is surveyed. One measure of the likely difference resulting from not including all dwellings in the survey is given by the standard error. There are about two chances in three that a sample estimate will differ by less than one standard error from the figure that would have been obtained if all dwellings had been included in the survey, and about nineteen chances in twenty that the difference will be less than two standard errors.

Standard errors of key estimates and movements since the previous month are available in *Labour Force, Australia* (cat. no. 6202.0). The standard error of other estimates and movements may be calculated by using the spreadsheet contained in *Labour Force Survey Standard Errors, Data Cube* (cat. no. 6298.0.55.001).

COHERENCE

The ABS has been conducting the Labour Force Survey each month since February 1978. While seeking to provide a high degree of consistency and comparability over time by minimising changes to the survey, sound survey practice requires careful and continuing maintenance and development to maintain the integrity of the data and the efficiency of the collection.

The changes which have been made to the Labour Force Survey have included changes in sampling methods, estimation methods, concepts, data item definitions, classifications, and time series analysis techniques. In introducing these changes the ABS has generally revised previous estimates to ensure consistency and coherence with current estimates. For a full list of changes made to the Labour Force Survey see Chapter 20 in *Labour Statistics: Concepts, Sources and Methods* (cat. no. 6102.0.55.001).

INTERPRETABILITY

The key estimates from the Labour Force Survey are available as original, seasonally adjusted and trend series. Seasonal adjustment is a means of removing the effects of normal seasonal variation from the series so other influences on the series can be more clearly recognised. Seasonal adjustment does not aim to remove the irregular influences which may be present and therefore month-to-month movements may not be reliable indicators of underlying behaviour. To assist in interpreting the underlying behaviour, the ABS produces the trend series by smoothing the seasonally adjusted series to reduce the impact of the irregular component. For further information, see *A Guide to Interpreting Time Series - Monitoring Trends* (cat. no. 1349.0).

Further information on the terminology and other technical aspects associated with statistics from the Labour Force Survey can be found in the publication *Labour Force*, *Australia* (cat. no. 6202.0), which contains detailed Explanatory Notes, Standard Error information and a Glossary.

ACCESSIBILITY

Please see the Related Information tab for the list of products that are available from this collection.

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